JUN 07 '26 09:35PM 863 11/06/2003 13:28 FAX 814 865 3591

3591 Intellectual Prop Office

P.3 **2002/007** NO.573 002

11/05/2003 1

(check one)

12:59

GIFFORD KRASS > 18148653591

Page 1 of 4

Express Mail Label No.

Docket No. PST-10902/36

Declaration and Power of Attorney For Patent Application English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (I only one name is listed below) or an original, first and joint inventor (If plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

SENSORLESS CONTROL OF A HARMONICALLY DRIVEN ELECTRODYNAMIC MACHINE FOR A THERMOACOUSTIC DEVICE OR VARIABLE LOAD

the specification of which		

2	is attached hereto.	
	was filed on	as United States Application No. or PCT International
	Application Number	i i
	and was amended on	
		(if applicable)
ı h	ereby state that I have reviewed ar	nd understand the contents of the above identified specification,

I hereby state that I have reviewed and understand the contents of the above identified specification including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application	n(s)		Priority Not Claimed
(Number)	(Country)	(Day/Month/Year Filed)	0
(Number)	(Country)	(DayMonth/Year Filed)	
(Number)	(Country)	(Day/Month/Year Filed)	٠,

Parm PTO-00-01 (9-95) (Modilisa)

POMETEVOR

Petent and Trademark Unice-U.S. DEPARTMENT OF GOMMERCE

JUN 07 '26 09:36PM 863

11/06/2003 13:28 FAX 814 865 3591

Intellectual Prop Office 11/06/2003 12:59 GIFFORD KRASS + 18148653591

P.4 **2**003/007 NO.573

Page 2 of 4

60/426,048	November 12, 2002	
(Application Serial No.)	(Filing Date)	
(Application Serial No.)	(Filing Date)	
(Application Serial No.)	(Filing Date)	
section 385(c) of any PCT Internations as the subject matter of a Inited States or PCT International. S.C. Section 112, I acknowled office all Information known to a section 1.58 which became available.	ational application designating each of the claims of this ap al application in the manner (ge the duty to disclose to the me to be material to patental able between the filing date of	any United States application(s), the United States, listed below an plication is not disclosed in the provided by the first paragraph of United States Patent and Tradema bility as defined in Title 37, C. F. I the prior application and the nation
section 365(c) of any PCT International description as the subject matter of control of the section 112, I acknowled office all information known to the section 112, I acknowled to 112, I acknowled the section 112, I ac	ational application designating each of the claims of this ap al application in the manner (ge the duty to disclose to the me to be material to patental able between the filing date of	the United States, listed below an piloation is not disclosed in the provovided by the first paragraph of United States Patent and Tradema lility as defined in Title 37, C. F. If the prior application and the nation (Statue)
section 365(c) of any PCT Internations as the subject matter of clinited States or PCT Internations J.S.C. Section 112, I acknowled office all Information known to resection 1.56 which became available PCT International filling date of the International Section 1.56 (Application Section No.)	ational application designating each of the claims of this ap al application in the manner ge the duty to disclose to the me to be material to patental tole between the filing date of this application: (Filing Date)	the United States, listed below an plication is not disclosed in the provided by the first paragraph of United States Patent and Trademaility as defined in Title 37, C. F. If the prior application and the nation (Status) (patented, panding, abandoned)
section 385(c) of any PCT Internations as the subject matter of a Inited States or PCT International. S.C. Section 112, I acknowled office all Information known to resection 1.58 which became available PCT International filing date of the International filing date	ational application designating each of the claims of this application in the manner ge the duty to disclose to the me to be material to patental to between the filing date of this application:	the United States, listed below an piloation is not disclosed in the provoided by the first paragraph of United States Patent and Tradema bility as defined in Title 37, C. F. I the prior application and the nation (Status)

were made with the knowledge that willful false statements and the like so made are punishable by fine or Imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful faise statements may jeopardize the validity of the application or any patent issued thereon.

11/06/2003

Ø1016/019 P.05/08

. JUN 03 2004 17:54 FR NORTHROP GRUMMAN

410 552 2022 TO 88148653591

11/06/2003 13:29 PAX 814 865 3591 12:59

Intellectual Prop Office G[FFORD KRASS > 18148653591

Ø 004/007 NO.573 084

Page 3 of 4

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

Ernest I. Gifford (Reg. No. 20,644) Allen M. Krass (Reg. No. 18,277) Irvin L. Groh (Reg. No. 17,505) Douglas W. Sprinkle (Reg. No. 37,394) Thomas E. Anderson (Reg. No. 31,318) Ronald W. Citkowski (Reg. No. 31,005) Judith M. Riley (Reg. No. 31,561) Douglas J. McEvoy (Reg. No. 34,385) John G. Pasa (Reg. No. 37,424) Douglas L. Wathen (Reg. No. 41,369)

Avery D. Goldstein (Reg. No. 39,204)

Mark D. Schneider (Reg. No. 43,986) Beverly M. Bunting (Reg. No. 36,072) Julie K. Staple (Reg. No. 50,434) Lionel D. Anderson (Reg. No. 50,571) Pamela A. Ruest (Reg. No. 40,795)

Send Correspondence to: Douglas L. Wathen

. Gifford, Krass, Grob, Sprinkle, Auderson & Citkowski, PC

280 N. Old Woodward Ave., Suite 400

Birmingham, MI 48009

Direct Telephone Calls to: (name and telephone number)

Douglas L. Wathen (734) 913-9900

Tony L. Shearer Jony Shearer	11/6/03
Side or lifet inventore alignature	Date
Residence Port Matilda, Pennsylvania	
Citizenship US	
Post Office Address 319 W. Fowler Hollow Lanc	
Port Matilda, Pennsylvania 16870	

Pull name of second inventor, if any Robert W. M. Smith	•	
Sacond Inventor's algrature	•	Date
Residence State College, Pennsylvania		
Chizenship US		
Post Office Address 110 Suburban Ave.	1	
State College, Pennsylvania 16803		

' jun 07 '26 09:36PM 863

11/06/2003 13:29 FAX 814 865 3591 GIFFORD KRASS - 18148653591 12:59 11/06/2003

Intell ctual Prop Office

P.5 **2004/007** NO.573 084

Page 3 f 4

POWER OF ATTORNEY: As a nam d Inventor, I hereby appoint the foll wing attorney(s) and r agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

Ernest I. Gillord (Reg. No. 20,644) Allen M. Krass (Reg. No. 18,277) Irvin L. Grob (Reg. No. 17,505) Douglas W. Sprinkle (Reg. No. 37,394) Thomas E. Anderson (Reg. No. 31,318) Ronald W. Cirkowski (Reg. No. 31,003) Judith M. Riley (Reg. No. 31,561) Douglas J. McEvny (Rog. No. 34,385) Jahn G. Posa (Reg. No. 37,424)

Mark D. Schneider (Reg. No. 43,906) Beverly M. Bunting (Reg. No. 36,072) Julie K. Staple (Reg. No. 50,434) Lionel D. Anderson (Reg. No. 50,571) Percels A. Ruest (Reg. No. 40,795)

Send Correspondence to: Douglas L. Wather

Douglas L. Wathen (Reg. No. 41,369) Avery D. Goldstein (Reg. No. 39,204)

. Giffard, Kress, Groh, Sprinkle, Anderson & Citkowski, PC

280 N. Old Woodward Ave., Spite 400

Birmingham, MI 48009

Direct Telaphone Calls to: (name and telephone number)

(734) 913-9390 Douglas L. Wathen

Full marrie of sole of first inventor Tony L. Shearer	·
Sole or first inventor's signature	Date
Residence Port Matilda, Pennsylvania	
Gifizanship US	
Post Office Address 319 W. Fowler Hollow Lane	q.
Port Metilds, Pennsylvania 16870	

Pull name of second inventor, if any Robert W. M. Smith	,	
Second Inventors signature Rolf W	M Smith	6 Nov 2003
Residence Siste Colicge, Parasylvania		
Chizeruhip US		
Fox Office Address 110 Suburban Ave.		
State College. Pennsylvania 16803		

Form PTO-SH-01 (8-84) (Modified)

PRIORI AND TINGENUE DITIONUE, DEPARTMENT OF COMMERCE

Intellectual Prop Office PSU EE

Ø 011/019 PAGE 06/08

11/06/2003 13:29 FAX 814 865 3591 Intellectual 11/06/2003 12:59 GIFFORD KRASS + 18148653591

Intellectual Prop Office

2005/007 ND.573 **D2**5

Page 4 of 4

uli name of third inventor, if any Teath F, Hotmaton	· ·
third layentor's eignature Head form	Timenter 7 2003
Residence State College, Pennsylvania	
itizenenip US	
'asi Office Address i32 W. Faster Ave.	
State College, Pennsylvania 16803	
Full name of fourth inventor, if any	
Fount haventor's signature	Dete
ನಿವಾಗಿಕೊಂಡಿ	
Zilizenship	
Post Office Address	-
Fill name of lifth truentor, if any Tith inventor's signature	Date
Residence	
2022 Anahip	
Post Office Address	<u> </u>
full name of sbith inventor, if any	
sixul Inventore alguature	Data
Residence	
Citizenship	
oet Office Address	

5